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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (2011 Onwards) (Sem.-1,2)
FUNDAMENTALS OF COMPUTER PROGRAMMING AND IT
Subject Code : BTCS-101
Paper ID : [A1108]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A**1. Write briefly :**

- a. What are symbolic constants?
- b. Define expression.
- c. What do you mean by precedence and associativity of an operator?
- d. What are formal arguments and actual arguments?
- e. What is the use of continue statement?
- f. What do you mean by polymorphism?
- g. What is use of private access specifier?
- h. What are member functions?
- i. What is recursion? What is its use?
- j. How strings are passed to a function? Show with an example.

SECTION-B

2. Describe in detail RAM, ROM and various secondary storage devices used in a computer system.
3. What do you mean by GUI? What are the significant features of GUI based operating system?
4. What do you mean by pseudocode? Describe in detail how algorithms are expressed in pseudocode. Write an algorithm in pseudocode to generate first 50 numbers in Fibonacci sequence.
5. Describe in detail spell check and mail merge features of word processing software.

SECTION-C

6.
 - a. What do you mean by identifiers? What are the rules that one must follow to write a valid identifier name in C++?
 - b. Differentiate between initialization and assignment.
7. Describe in detail, with the help of examples, various looping constructs available in C++.
8.
 - a. What are functions? What are the advantages of using functions?
 - b. What are default arguments? Why are they used?
9.
 - a. Describe in detail inheritance and its various types.
 - b. What are multi-dimensional arrays? How are they stored in C++?